

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 July 2006 (13.07.2006)

PCT

(10) International Publication Number
WO 2006/073208 A1

(51) International Patent Classification:
H04L 27/36 (2006.01)

(21) International Application Number:
PCT/JP2006/300322

(22) International Filing Date: 6 January 2006 (06.01.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2005-001200 6 January 2005 (06.01.2005) JP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

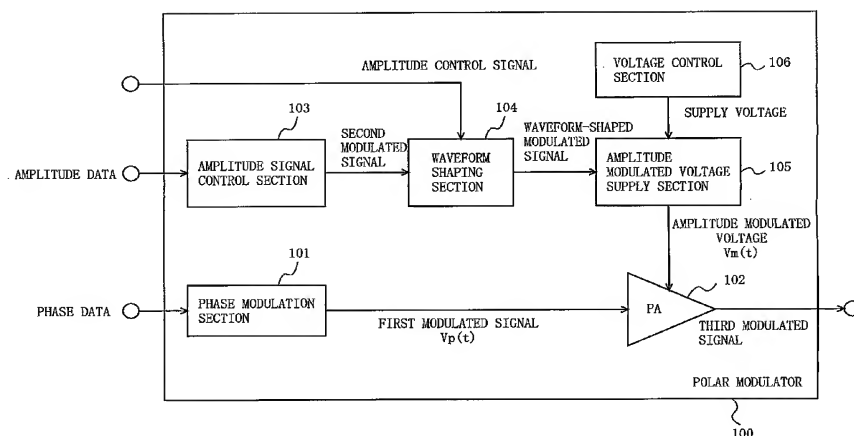
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: POLAR MODULATOR AND WIRELESS COMMUNICATION APPARATUS USING THE SAME



(57) **Abstract:** A phase modulation section (101) generates a first modulated signal including phase information. An amplitude signal control section (103) generates a second modulated signal including amplitude information. A waveform shaping section (104), when an amplitude of the second modulated signal is larger than a regulated value, generates a waveform-shaped modulated signal. An amplitude modulated voltage supply section (105) amplifies the waveform-shaped modulated signal based on the supply voltage from a voltage control section (106) and supplies the amplified signal to a power amplification section (102). The power amplification section (102) amplifies the first modulated signal based on the amplitude modulated voltage, and outputs the resultant signal. The waveform shaping section (104) adjusts the regulated value in accordance with a factor for changing a distorted power generated by the power amplification section (102), such that an ACP generated by the power amplification section (102) becomes a first predetermined value or smaller.

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